

In the Specification:

Please amend the specification as follows:

Please replace the paragraph beginning on page 15, line 4, with the following rewritten paragraph:

$$PM2(t)=BM4+PM4\underline{PM0}(t-1) \quad \dots (9)$$

Please replace the paragraph beginning on page 15, line 13, with the following rewritten paragraph:

It is noted that $BM0+PM0(t-1)$ of $PM0(t)$ corresponds to a transition from the state $S0$ to the state $S0$, and $BM1+PM1(t-1)$ of $PM0(t)$ corresponds to a transition from the state $S0$ $S1$ to the state $S2$ $S0$. In addition, $BM6+PM2(t-1)$ of $PM3(t)$ corresponds to a transition from the state $S3$ $S2$ to the state $S4$ $S3$, and $BM7+PM3(t-1)$ of $PM3(t)$ corresponds to a transition from the state $S3$ to the state $S3$.